Work Order ID 103449

103449

Page 1

June-24-13 1:55:52 PM *N900040100* 647.9412 Accept Setup Start Item ID: **Revision ID:** Stop Item Name: Deflector Upper, Half *10* Start Qty: 10.00 **Start Date:** 6/24/13 **Cust Item ID:** Required Date: 7/05/13 Req'd Qty: 10.00 Customer: Reference: Run Date: 13-06-27 Tooling: Process Plan: MUS! Date: Approvals: Stop SPC (Y/N): Date: Date: Reject Set Up/ - Tool ID Tool # Plan Accept Reject Insp. Sequence ID/ Operation Code Qty Qty Number Stamp Work Center ID Description **Run Hours Draw Nbr Revision Nbr** 647.9400 Α 0.00 2/13/08/14 PAS 13/08/15 110 HAAS CNC VERTICAL MACHINING #1 4 \$ *110* 0.00 HAAS 1 Memo Billet size: 2.750" X 4.500" X 34.000" HAAS CNC vertical machine #1 1-Machine per folio FB184 DWG REV: A FOLIO REV: 4 2- deburr and break all sharp edges 0.00 and 13/08/14 QC2- Inspect parts off machine FAI/FAIB 120 *120* 0.00 OC Memo Quality Control

DQA:			_ Date:			_							,	JV DX
QA Closed:			Date:			WORK ORDER NON	-C(ONFO	RMANCE / UPDATE		orle Ordon un	alata anlı	$\overline{}$	AEROSPACE
QA Closed.			Date.					Г—		VV	ork Order up	date only	Ш	
Work Ord	er:					DISPOSITION			AGAINS	T DE	PARTMENT	/PROCESS		
	-					Rework]		Skid-tube Crosstub	e]	Water Jet		Engineering
Part !	No.				;	Scrap			Machining Small Fa	_	Pro	d. Eng. Coor.	П	Quality
	-	·				Use-as-is		Therr	noforming Finishin	g	Rec/Sto	e/Packaging	П	Other
NCR	No.					Suspected Unapproved			Large Fab Composit	:e		Supplier		
	Des						<u> </u>							
Root	Ì	D - 1 -	C	<u>.</u>	Desc	ription of work order update	l .	Initial	Action		Sign &			
Cause	\vdash	Date	Step	Qty		or non-conformance	Cr	nief Eng	Description		Date	Verificatio	n	QC Inspector
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Doc/Data	$\vdash\vdash$													
Equip/Tooling	H													
Handling/Pre Material	H												ŀ	
Operator	Н													
Offset/Setup	Н			·										
Process	\vdash													
Supplier	\Box							•						
Training														
Transport								Ú÷.						
Unapproved	П													
							FA	ULT CAT	regory					-
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	Ш	Bending				Bend		Folio/P	rogram		Outside Dim	ensions		Pressure/Forced
	Ш	Centre No	ot Concer	ntric		BOM/Route		Grain			Over/Under	tolerance		Set-up
	Н	Cracks			<u> </u>	Broken/Damage/Defect		Hardwa	re	<u> </u>	Part Incorred	et .	Ш	Temperature/Cure
		Crimp/Kir	nk/Ripple,	/Wave	·	Burrs		Inspecti	ion Incomplete/Unqualified		Part Lost/Mi	ssing		Weld
	-	Cuffs				Contamination		1	ions Incomplete/Unclear		Part Moved			Wrong Stock Pulled
	-	Crushing				Countersink	<u> </u>	4	ned/off center	L	Positioned V	-		
		Heat Trea				Cut Too Short	\vdash	Mislabe		L	Power Loss/	Surge		Other
	\vdash	Inspectio	· .	Tube	ļ	Drawing		Misread	1					
	\vdash	Marks/Ch				Drill Holes	_	Off-set						
	-	Turning S			<u> </u>	Finish		4	Calibration					
	1 1	Wave/Tw	ist in Tub	e	1	Fit/Function	1	Out of S	Sequence					

H:/FORMS/Quality Assurance\approved QA/NCRWO RevH

6/24/13

103449

Page 2

June-24-13	1:55:52 PM
Item ID:	647 94

Required Date: 7/05/13

647.9412

Accept

N900040100

Setup Start

Stop

Revision ID:

Start Date:

Item Name: Deflector Upper, Half

Start Qty: 10.00 Req'd Qty: 10.00

Date:_____

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____ Date: ____ Tooling:

SPC (Y/N):

Date:

Run

Stop

Sequence ID/ Work Center ID Operation Description Set Up/ **Run Hours** Tool ID

Date:

Tool # Plan Code

Reject Accept Qty Qty

Reject Insp. Number Stamp

130

120

QC

Memo

OC8- Inspect parts - second check

0.00

0.00

\$ 13-08-15

Quality Control

131

131 HandFinish

Hand Finishing

0.00 0.00 Memo CLEAN AND REMOVE ALL PART MARKING

CX13/09/13

140

140

Outsource4

Outsource process - Anodize

Outsource process-Anodize per QSI017 4.1.10.1

0.00

Memo

Issue P/O to ATG: 2/05~

0.00

1- Black Anodize as per Dwg 647.9400

Certification of Comformity is required

CZ 13/09/13 (4

DQA:			_ Date:										
			ъ.			WORK ORDER NON-	-C(ONFO	RMANCE / UPD/				AEROSPACE
QA Closed:			Date:					·		W	ork Order up	date only	
Work Ord	er:					DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
	-					Rework			Skid-tube C	rosstube		Water Jet	Engineering
Part I	No.					Scrap			⊢	Small Fab	Pro	d. Eng. Coor.	Quality
	-					Use-as-is		1	· -	Finishing	-	e/Packaging	Other
NCR I	No.					Suspected Unapproved			·	omposite		Supplier	
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Doc/Data	Ц												
Equip/Tooling	Ц												
Handling/Pre	Ц												
Material	Н												•
Operator	Н												
Offset/Setup	Н												
Process	Н												
Supplier	Н					•							
Training Transport	Н												
Unapproved	Н												
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Landi	ng G	ear				General		<u> </u>					——————————————————————————————————————
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		Cracks				Broken/Damage/Defect		Hardwa	re		Part Incorred	t T	Temperature/Cure
		Crimp/Kir	nk/Ripple,	/Wave		Burrs		Inspecti	on Incomplete/Unqua	lified	Part Lost/Mi	ssing	Weld
		Cuffs				Contamination		Instruct	ions Incomplete/Uncle	ear	Part Moved		Wrong Stock Pulled
		Crushing				Countersink		Misalig	ned/off center 🕚		Positioned W	rong _	<u> </u>
	-	Heat Trea				Cut Too Short		Mislabe			Power Loss/S	Surge [Other
	-		n Strip in	Tube		Drawing		Misread	1				
	${}$	Marks/Ch				Drill Holes		Off-set					
		Turning S				Finish	L	4	Calibration				·
	1 1	Wave/Tw	ist in Tub	e	-	Fit/Function		Out of S	Sequence				

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3									4814
Work Orde June-24-13 1:5.		103449		*10	3449*				Page 3
Item ID: Revision ID:	647.9412			Accept	*N900	04010) 0*	Setup Start	1/1/2/1
Item Name:	Deflector	Upper, Half						Stop	*NS2*
Start Date: Required Date: Reference:	6/24/13	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item Customer:	ID:	ī	Run Start	
Approvals:	Process	Plan:	Date:	Tooling:	D	ate:			"NRT"
	QC:	· .	Date:	SPC (Y/N):	D	ate:	and the same	Stop	*NR2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Pla		Reject Qty	Reject Insp. Number Stamp
150 .		Receive & Inspect for D	Damage & Mat'l Certs	0.00					
150 Packaging Packaging		Memo		0.00					13/5//3
					•				
155 *4FC*		QC5- Inspect part comp	oleteness to step on W/O	0.00 DAS 27			4		
155 QC Quality Control		Memo		0.00 B 9.89	16				

180

Identify as per dwg & Stock Location: 5

180 Packaging

Memo

0.00

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

DQA:			_ Date:										•	
						WORK ORDER NON-	-C(ONFO	RMANCE / UI			,		AEROSPACE
QA Closed:			Date:								ork Order up	odate only		
Work Ord	er:					DISPOSITION				AGAINST D	EPARTMENT,	/PROCESS		
	•					Rework			Skid-tube	Crosstube		Water Jet		Engineering
Part i	No.					Scrap		. 1	Machining	Small Fab	Pro	d. Eng. Coor.		Quality
	•					Use-as-is			noforming	Finishing	-	re/Packaging		Other
NCR I	۷o.					Suspected Unapproved			Large Fab	Composite]	Supplier		
Root				· -	Desc	ription of work order update		Initial	Acti	ion	Sign &		<u> </u>	
Cause		Date	Step	Qty	2 030	or non-conformance		nief Eng	Descr		Date	Verification	n	QC Inspector
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Handling/Pre														
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Operator														
Offset/Setup												-		
Process	Ш													
Supplier														
Training	Ш												,	
Transport	Ш	•												
Unapproved						•								
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Landi	$\overline{}$					General	,	1		_	=	,		•
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	\vdash	Centre No	ot Concer	ntric		BOM/Route		Grain			Over/Under	}	ot	Set-up
	—	Cracks			_	Broken/Damage/Defect		Hardwa			Part Incorred	ŀ		Temperature/Cure
		Crimp/Kir	nk/Ripple	/Wave		Burrs		1	on Incomplete/Un		Part Lost/Mi	- +		Weld
	-	Cuffs			<u> </u>	Contamination	l	4	ions Incomplete/U	Inclear	Part Moved			Wrong Stock Pulled
	${f -}$	Crushing			\vdash	Countersink		1	ned/off center	<u> </u>	Positioned V	· ·		l
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		Wave/Tw	rist in Tub	e	1	Fit/Function		Out of S	Sequence					

Work Ord June-24-13 1:5		3449		*10	3449*					Page 4
Item ID: Revision ID:	647.9412			Accept	*N900	040	100)* s	Setup Star	IVICTI
Item Name:	Deflector Upp	er, Half		₹ ÷					Stop	' *NS2* ·
Start Date: Required Date: Reference:	6/24/13	Start Qty: 10.00 Req'd Qty: 10.00	*10° *10°		Cust Item :				S. S.	
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	_	F	Run Star	"INRI",
Approvais.	QC:			SPC (Y/N):	D	ate:			Stop	*NR2*
Sequence ID/ Work Center I	D .	Operation Description		Set Up/ Run Hour	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Insp. Number Stamp
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190		Мето		0.00						1117 1
Quality Control									gl	soall

DQA:		Date	:		<u>.</u>							*	
QA Closed: Date:			WORK ORDER NON-	-C(ONFO	RMANCE / UI					AEROSPACE		
QA Closed:		Date	:		· · · · · · · · · · · · · · · · · · ·		r	<u> </u>	W	ork Order u	odate only		
Work Orde	er:				DISPOSITION				/PROCESS				
					Rework	Ì		Skid-tube	Crosstube	7	Water Jet	\neg	Engineering
Part N	No.				Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	┨	Quality
					Use-as-is		Thern	noforming	Finishing		re/Packaging	٦	Other
NCR N	No				Suspected Unapproved]		Large Fab	Composite		Supplier		
Root			T -	Desc	ription of work order update		I Initial	Act	ion	Sign &		П	
Cause	Da	te Step	Qty	_	or non-conformance	Ch	nief Eng	Descr	ription	Date	Verification		QC Inspector
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Doc/Data										·			
Equip/Tooling													
Handling/Pre													
Material													
Operator													
Offset/Setup	\vdash												
Process													
Supplier Training	\vdash								•				
Transport	\vdash										+ 5		
Unapproved													
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Landii	ng Gear				General								
	Bendi	ng			Bend		Folio/P	rogram		Outside Dim	ensions	7	Pressure/Forced
	Centr	e Not Conce	entric		BOM/Route		Grain	•		Over/Under	tolerance	_	Set-up
	Crack	S .			Broken/Damage/Defect		Hardwa	re		Part Incorred	ct	7	Temperature/Cure
	Crimp	/Kink/Ripple	e/Wave		Burrs		Inspecti	on Incomplete/Un	nqualified	Part Lost/Mi	ssing	\exists	Weld
	Cuffs				Contamination		Instruct	ions Incomplete/U	Jnclear	Part Moved		\neg	Wrong Stock Pulled
	· Crush	ing			Countersink		Misalig	ned/off center		Positioned V	Vrong _		
	Heat				Cut Too Short		Mislabe			Power Loss/	Surge		Other
		ction Strip ir	1 Tube		Drawing	_	Misread						
		s/Chatter			Drill Holes	_	Off-set						
		ng Sequence			Finish		Out of C	Calibration					
j	l lWave	/Twist in Tu	he	ŀ	Fit/Function		Out of S	earrence					

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Picklist Print

June-24-13 1:55:52 PM

Work Order ID:

103449

Parent Item:

647.9412

Parent Item Name:

Deflector Upper, Half

Start Date: 6/24/13

Required Date: 7/05/13

Page 1

Start Qty: 10.00

Required Qty: 10.00

Comments:

IPP REV:A NEW ISSUE JFS 13/05/24 VERIFY BY: DD

MAT

125362

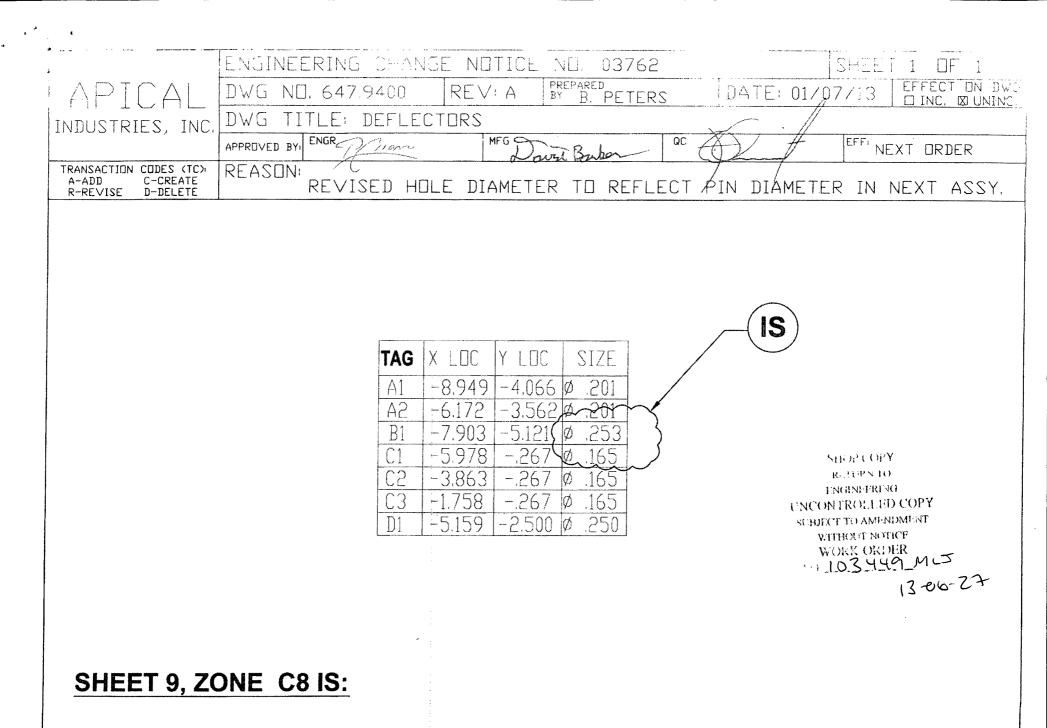
Component Item ID/ Replacement Item Name Item ID	·	Bin Primary Las Item Location Loc	Route ation Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M7075T6B3.000X04.500 7075-T6 BAR 3.000' X 4.500"	Purchased	No :	110	f	34.0000	2.834	28.34			
7075-10 BAR 5.000 X 4.500		Location	Loc Oty	Lo	c Code					

34

11.336 onl 13/08/14

DQA:			_ Date:											NO A DT
						WORK ORDER NON-	-C(ONFO	RMANCE / UP					AEROSPACE
QA Closed:			Date:							W	ork Order up	date only		
Work Ord	er:					DISPOSITION				AGAINST DI	EPARTMENT	/PROCESS		
	•					Rework			Skid-tube	Crosstube	7	Water Jet		Engineering
Part I	No.					Scrap			Machining	Small Fab	Pro	d. Eng. Coor.		Quality
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NCR I	۷o.					Suspected Unapproved			Large Fab	Composite]	Supplier		
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Root					Desc	ription of work order update	l	Initial	Actio		Sign &			
Cause	,	Date	Step	Qty		or non-conformance	Cr	nief Eng	Descri	ption	Date	Verificatio	n	QC Inspector
Design	Н													
Doc/Data	\vdash													
Equip/Tooling	$\vdash \vdash$													
Handling/Pre	\vdash													
Material	Н													
Operator	Н													
Offset/Setup Process	Н													
Supplier	H													
Training														
Transport	Н													
Unapproved	П													
			.				FA	ULT CAT	EGORY		. I			
Landi	ng G	Gear				General								
		Bending				Bend		Folio/P	rogram		Outside Dim	ensions		Pressure/Forced
		Centre N	ot Concer	ntric		BOM/Route		Grain			Over/Under	tolerance		Set-up
		Cracks				Broken/Damage/Defect		Hardwa	re		Part Incorred	ct		Temperature/Cure
		Crimp/Ki	nk/Ripple	/Wave		Burrs		Inspecti	on Incomplete/Und	qualified	Part Lost/Mi	ssing		Weld
		Cuffs				Contamination		Instruct	ions Incomplete/Ur	nclear	Part Moved			Wrong Stock Pulled
	Ш	Crushing				Countersink	L	Misalig	ned/off center		Positioned V	Vrong		•
	-	Heat Trea				Cut Too Short	L	Mislabe	eled		Power Loss/	Surge		Other
	-	Inspectio		Tube		Drawing	L	Misread	1					
	Ш	Marks/Ch				Drill Holes		Off-set					•••	
		_	Sequence			Finish	_	1	Calibration					
		Wave/Tw	vist in Tub	e		Fit/Function	l	Out of 9	Sequence					

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DOCUMENTS EFFECTED:				CHANGE CATEGORY	DER REVIEW REQUIRED	
DOCUMENTO EN LONED.	□ RFMS □ MDL	☐ INSTALL INSTRUC	□ ICA	□ BOM □ MAJOR ☒ MINOR	☐ YES ☒ N□	

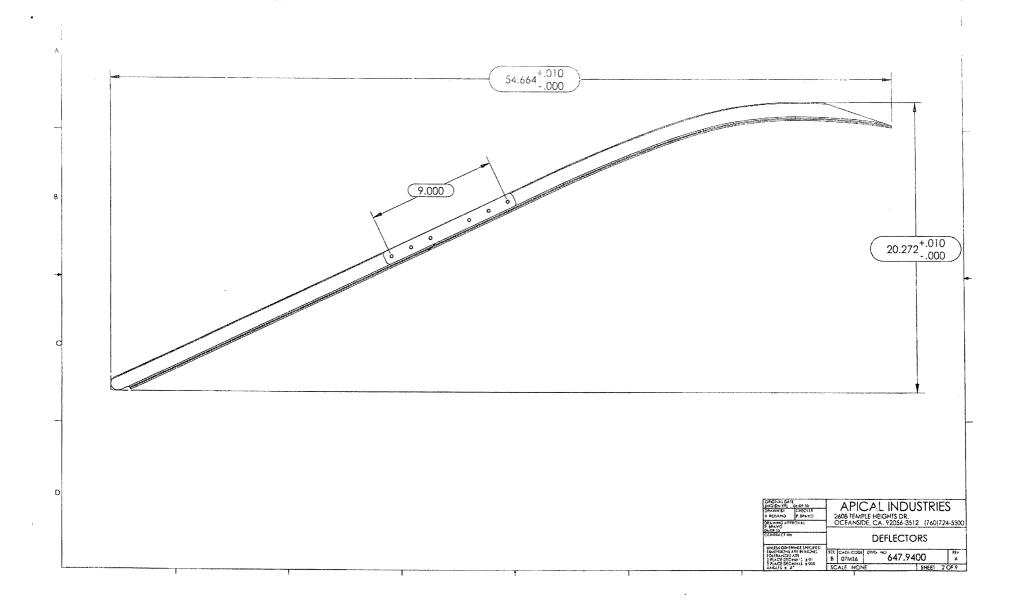
SHEET TENGINEERING CHANGE NOTICE NO. 03739 PREPARED EFFECT ON DWG DATE: 12/07/12 REV: A DWG NO. 647.9400 BY B. PETERS ☐ INC. Ø UNINC. DWG INDUSTRIES, INC NEXT ORDER APPROVED BY TRANSACTION CODES (TC) REASON: A-ADD C-CREATE TOLERANCE ON HOLE DIAMETER RIVET DIAMETER. R-REVISE D-DELETE 11.136 ---R.253 R2.982 7.470 6.597 ---IS 2.190 (1.700 78.0° 48.9° .558 Ø .130 + .005 2PL

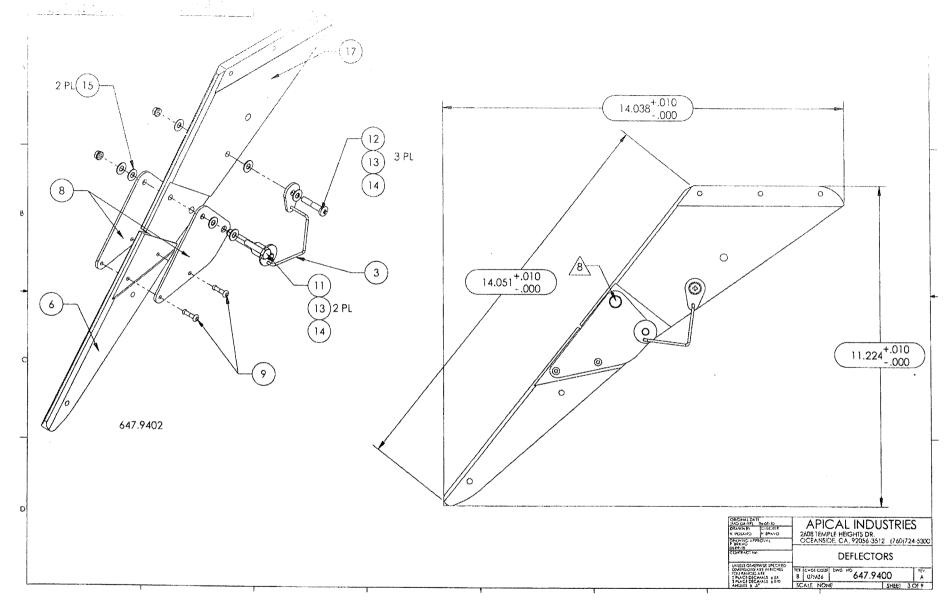
SHEET 8, ZONE D4 IS:

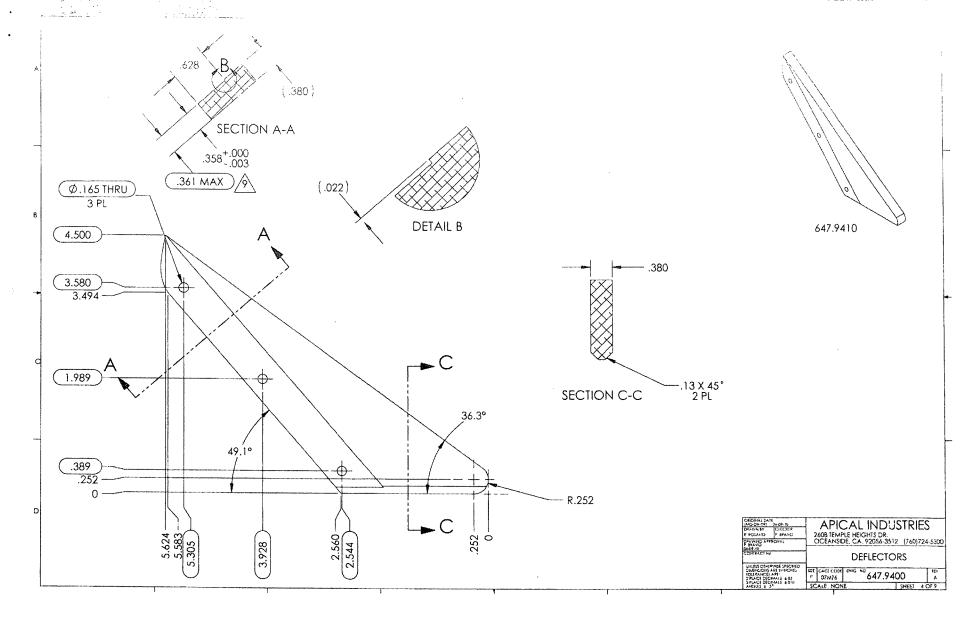
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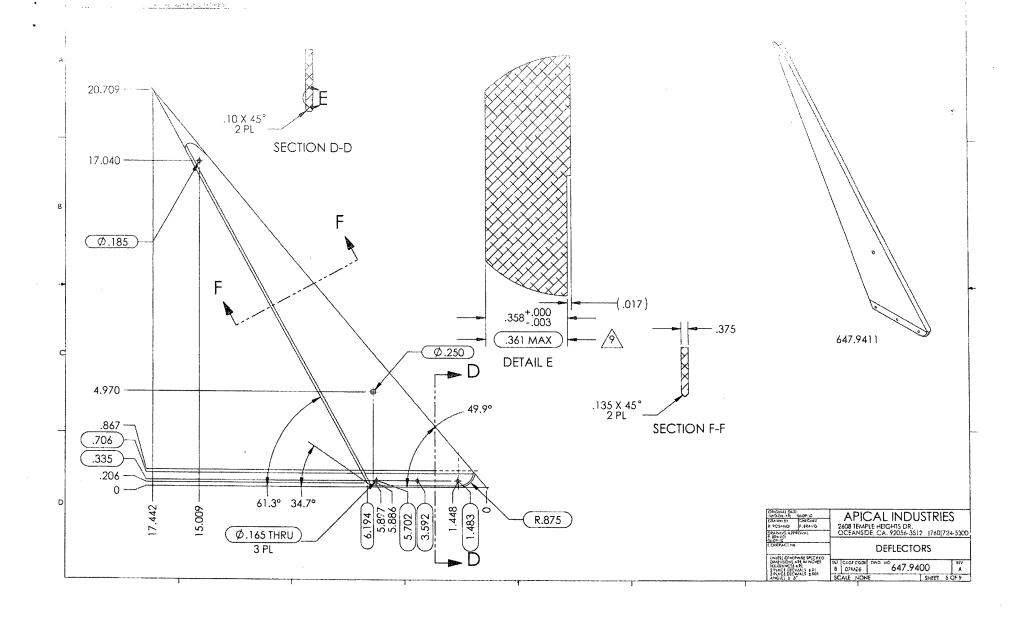
RFMS | MDL | INSTALL INSTRUC | ICA | BDM | MAJOR | MINOR | PES | NO | NO |

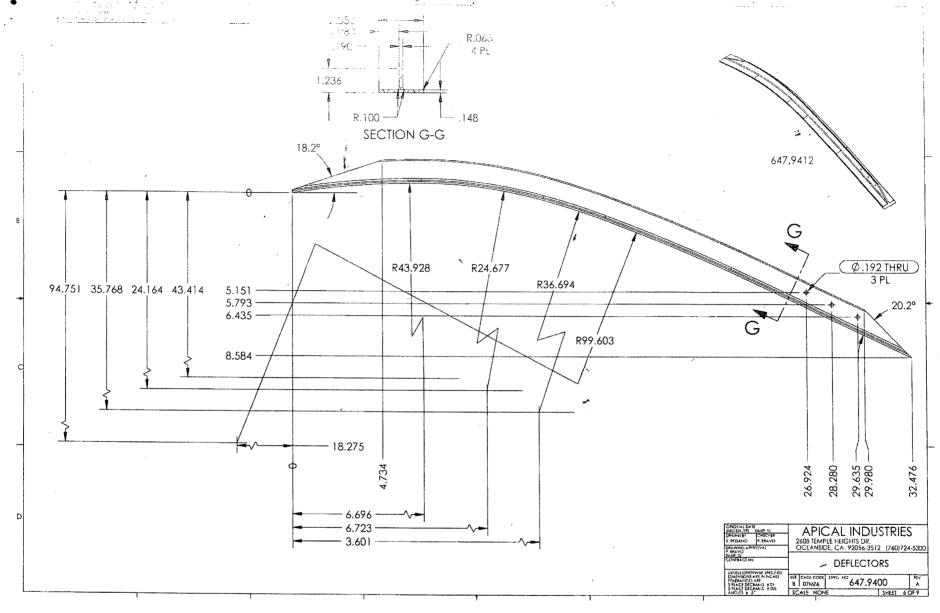
NOTES: UNLESS OTHERWISE SPECIFIED ZÍN MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12: AMS-QQ-A-200/11 IS AN ACCEPTABLE ALTERNATIVE. Z2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; 3. DE BURR AND BREAK ALL SHARP EDGES. 4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC. 5. ALL DIMENSIONS SHOWN PRIOR TO FINISH. 6 APPLY F/N 17 TO FAYING SURFACES. FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377 J, TYPE I, CLASS N; 1-2 MIL MAX. APPLY FINISH AFTER ASSEMBLY. 8 TORQUE 15-20 IN.-LBS. LOWER DEFLECTOR 12 647,9415 DIMENSION SHOWN IS FOR INSPECTION AFTER FINISHING. A/R 16 601.2045 RIV LOCTITE 598 1.5 601.1670 NYLON WASHER NAS1515H3L 601.2943 LOCKNUT MS21042-3 601,1607 WASHER NAS1149F0332P 601,3012 MS27039-1-15 UNINCORPORATED ECN(s) 12 SCREW 11 600.0786 BOLT AN3C7A RIVET CR3213-6-6 601.2995 CR3213-4-8 2 647,9019 HINGE 2 7 647.9018 DOUBLER LOWER DEFLECTOR \triangle 众众 647,9414 6 DEFLECTOR, LOWER 2 Δ 647.9413 5 DEFLECTOR, UPPER Δ 647.9412 4 QUICK RELEASE PIN 647,9501 3 $\Delta\Delta$ 2 647.9411 UPPER DEFLECTOR 22/2 647.9410 LOWER DEFLECTOR LOWER DEFLECTOR LONG ASSY 647.9402 \triangle 647,9401 DEFLECTOR ASSY 9402 ,9401 FIND # DESCRIPTION MATI. SPEC. PARTS UST APICAL INDUSTRIES NEXT ASSY (S) 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 [760]724-5300 647,8900 647.9200 **DEFLECTORS** 647,9400

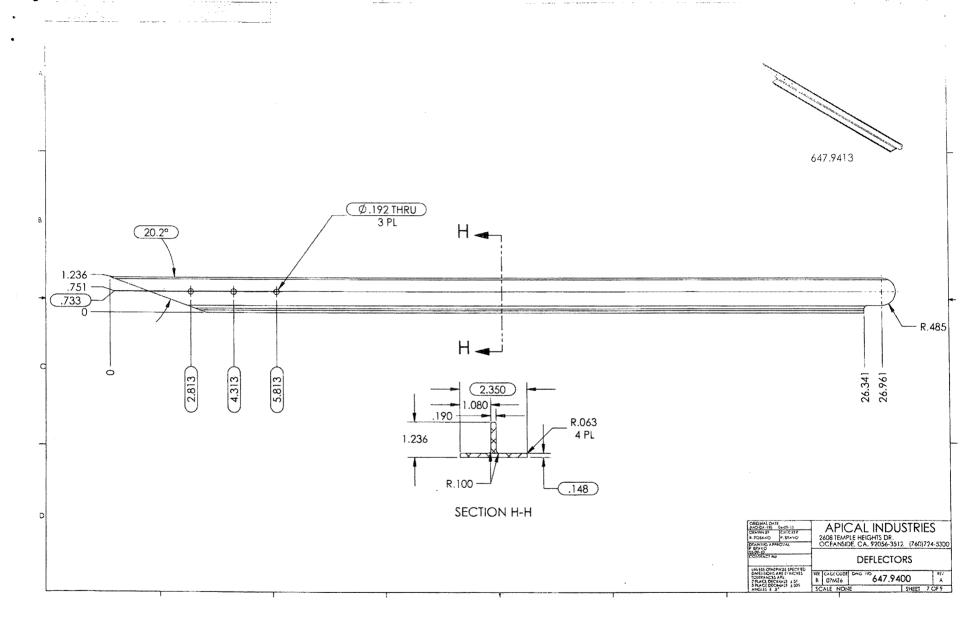


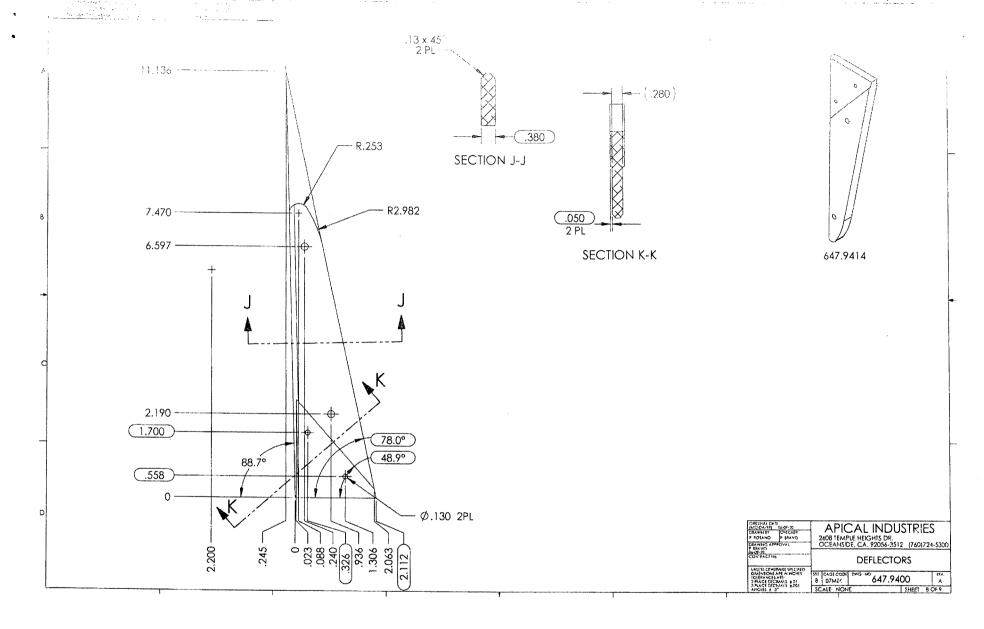


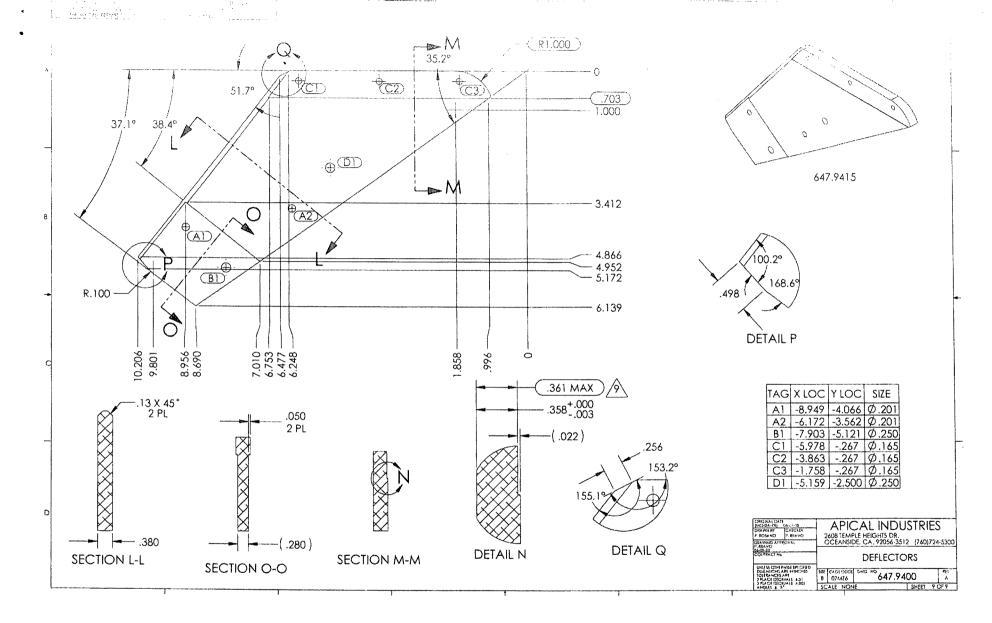












DART AEROSPACE LTD	Work Order:	
Description: DEFLECTOR UPPER, HALF	Part Number:	647,9412
Inspection Dwg: (47.9400 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing	Tolerance	Actual	A 4	Deinet	Method of			
Dimension	Tolerance	Dimension	Accept	Reject	Inspection	Comments		
2.350	± 005	2.352			Ven	MADL		
1.080	±.005	1.080			1			
1.236	±005	1.235			r)			
.148	± 005	148			,1,	·		
R.125	= 005	R.125	_		R-6			
.063	±,005	.062			Ven	MU-CBR		
8.192	±.005 ±.005 =.001	0.192			,,			
20,2	±1/2°	20,20			C-Danne	ML-CBR		
					0			
· · · · · · · · · · · · · · · · · · ·								

Measured by:	GNL	Audited by:	St	Preliminary Approval:	
Date:	13/08/14	Date:	13-08-15	Date:	

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

\$ 10.0d.18



Engineering Change Request (ECR)

ECR# (Assigned by Engineering Dept.): D-13-031

Employee or Customer Name: JEAN-LUC MENARD

Department or Company Name: DAS Production

Department or Company Phone/Fax/Email: jmenard@dartaero.com

Date: APRIL 15TH 2013

Subject Drawing/Document: 647.9412/.9413

Problem:

Change corner Radius to .125"(Standard), open tolerance to +/-.010 or greater, add option for .0625" rad or chamfer

Additional Comments/Clarification:

Engineering Liaison Representative (If applicable):

ECR Approval (Director of Engineering, Director of Operations, Manufacturing Manager or QC Manager):

ECN # (if applicable):



A.T.G. Industries Inc. 731, rue Industrielle Rd. PLATING DEPARTMENT Rockland, On K4K 1T2 Canada

Ph: (613) 446-4544 Fax: (613) 446-4556

Pack List

Number: 62618

Date: 12-Sep-13

To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7 Canada

Ship To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

Canada

Fax: 613-632-1185

613-632-520		Ph: 613-632-5200	
ns	Ship	Via	
Quantity	Description	Rev:	
1	Part: ASST	1.00	
lot	5 PCS 646.2910 10 PCS 646.3210 40 PCS 647.1713 10 PCS 647.9313 20 PCS 647.9410 50 PCS 647.9411 4 PCS 647.9412 10 PCS 647.9413	•	
	HARD ANODIZE BLACK MIL-A-8625 TYPE II CLASS 2 PRIME MIL-P-23377J TYPE I CLASS N Job: 20130567	D: 21052 Line:	·
	Certificate of Conforma	ance	
	A.T.G. Industries certifies that all items in this with all requirements, specifications and draw ISO 9001 : 2008 REGISTE ATG SALES-2010 TERMS	ERED	r. Č
	DATE: 12/9/13		
	CERTIFIED SIGNATURE :		
	RECEIVER SIGNATURE :	•	